

14.(Withdrawn) The method of claim 2, wherein said switching threshold is adjusted if the difference between the extremes or the amplitudes of the pulses and said variable switching threshold exceeds said fixable second maximum, and at the same time the difference between the amplitudes of two successive pulses exceeds a third fixable maximum, and at the same time the difference of the frequencies of successive pulses exceeds a fixable fourth maximum.

15.(Previously Presented) The method of claim 1, wherein said switching threshold is adjusted if the difference between the amplitudes and the pulses and said switching threshold exceeds said fixable first maximum value, and at the same time the difference between the extremes or the amplitudes of the pulses and the variable switching threshold exceeds a fixable second maximum value, and at the same time the difference between the amplitude of two successive pulses exceeds a fixable third maximum value, and at the same time the difference of the frequencies of successive pulses exceeds a fixable fourth maximum value.

16.(Currently Amended) The method of claim 15, comprising an evaluation circuit that receives said pulses and determines the relative angular position of the wheel and its instantaneous rotational velocity, and provides signals indicative thereof.

17.(Original) The method of claim 15, wherein the value of said switching threshold is increased if the difference of the amplitudes has a positive sign, and the value of said switching threshold is lowered if the difference signal has a negative sign.